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This annual publication is written for anyone with a general interest in astronomy and space flight. Geared mainly toward beginners, it will also appeal to amateur astronomers and other outdoor enthusiasts who want to enhance their enjoyment of the night sky and make informed decisions about buying astronomical equipment. *SkyWatch '98* entices you with exciting, colorful coverage of astronomy and space highlights. Its centerpiece is a handy guide to the stars and planets for the coming year, including monthly all-sky charts and tips on catching must-see celestial happenings such as meteor showers and eclipses. *SkyWatch '98* offers expert advice on getting started in astronomy, choosing and using binoculars and telescopes, selecting astronomy software, and exploring the universe on the Internet. It also previews forthcoming space-science highlights, including both piloted and robotic missions.

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Selected back issues of *Sky & Telescope* are available from the January 1985 issue for \$4.50 per copy in the United States and possessions and \$5.00 per copy elsewhere, postpaid. Contact our Customer Service Dept. for a list of available issues, or see the *S&T* back-issues page on our Web site at http://www.skypub.com/s_t/s_tback.html.

ATTENTION ASTRO-IMAGING ENTHUSIASTS: Selected back issues of our short-lived but highly praised quarterly, *CCD Astronomy*, are available from the premier issue, Spring 1994. They are priced at \$5.95 per copy in the U.S. and possessions and \$7.95 per copy elsewhere, postpaid. Or choose any four issues for \$20.00 (U.S. and possessions) or \$30.00 (elsewhere), postpaid. A complete list of available issues is on the Web at <http://www.skypub.com/ccda/ccdback.html>.



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Cover photo (stars and nebulae) by David Malin, Anglo-Australian Observatory.

WHAT A YEAR! Stunning new images from the Hubble Space Telescope, Comet Hale-Bopp's dazzling performance, Pathfinder's dramatic landing on Mars — all caught the public's fancy and stimulated new interest in astronomy and space exploration. Remarkably, the coming year promises to be every bit as exciting as the last. February brings an eclipse of the Sun to most of the Americas. Mars Global Surveyor spends 1998 mapping the red planet with unprecedented clarity. And will this be the year the Leonid meteor storm returns to light up November skies? Whatever the next 12 months hold in store for us, Sky Publishing will be here to help you get the most from your enthusiasm for astronomy — with Sky & Telescope and SkyWatch, SKY Online, and our always popular Sky Publishing Catalog, offering the galaxy's the best selection of books, star atlases, observing guides, software, and related products for backyard skygazers.

This year's catalog features some 200 items selected for you by the editors of Sky & Telescope. Many of these are brand new, and you'll also find a few old favorites that we've brought back by popular demand. The most important addition is the Millennium Star Atlas, produced by Sky Publishing in collaboration with the European Space Agency's Hipparcos project; you'll find it on pages 12 and 13. No serious stargazer will want to be without this new and impressively detailed map of the heavens.

Thanks to the dedication of our sales representatives and shippers, as well as our use of expedited package delivery, our customers have enjoyed ever faster and more efficient service. We strive to satisfy all our customers 100%. So if there's anything else we can do to improve our service to you, please don't hesitate to let us know.

Clear skies!

Richard Tresch Fienberg

Richard Tresch Fienberg
President/Publisher

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Which planets are visible in the sky tonight? When does twilight end? What time does the Moon rise, and what's its phase? Our colorful *Sky-Gazer's Almanac* (which appears in *Sky & Telescope* every January) answers these questions and more for every night of the year. Find out when sunsets, oppositions, conjunctions, and meteor showers occur. Trifold format eliminates staples! *4 pages, chart unfolds to 11 by 16 inches. Available in November 1997.*

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90037 . . . \$10.95

5 • Astronomy & Space 1998 Weekly Calendar New!

Spend the year in space, one week at a time! This handy appointment book contains 54 stunning color photos with detailed, informative captions. It also notes daily sky events and milestones in astronomical and space history. *120 pages, 6 by 9 inches, spiralbound.*

WEEKLY98 . . . \$12.95

6 • Observer's Handbook 1998 New!

Edited by Roy L. Bishop

This handbook from the Royal Astronomical Society of Canada is an essential reference for active amateurs. It features a monthly calendar of sky events such as meteor showers and conjunctions, finder charts for the outer planets and bright asteroids, eclipse predictions, and lots of almanac data, plus many complementary articles. *244 pages, 5½ by 8½ inches, softcover. Available mid-November 1997.*

H1998 . . . \$17.95

7 • Astronomical Calendar 1998 New!

By Guy Ottewell

Ottewell's legendary yearbook features day-by-day summaries of sky events and an abundance of helpful diagrams. For each month there is a star chart with a summary of interesting naked-eye and telescopic objects to see, plus much more. *72 pages, 11 by 15 inches, softcover. Available mid-November 1997.*

C1998 . . . \$19.95

8 • The Astronomical Almanac for the Year 1998 New!

The ultimate reference work for the serious observer. Compiled by the U.S. Naval Observatory and Her Majesty's Nautical Almanac Office in England, this comprehensive volume lists precise ephemerides and phenomena of the Sun, Moon, and planets and their satellites; positions of bright stars; elements for asteroids and periodic comets; and more. *558 pages, 7 by 10 inches, hardcover.*

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Note: In the United Kingdom the *Astronomical Almanac* should be purchased from Her Majesty's Stationery Office.



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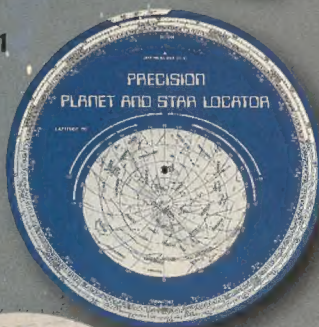
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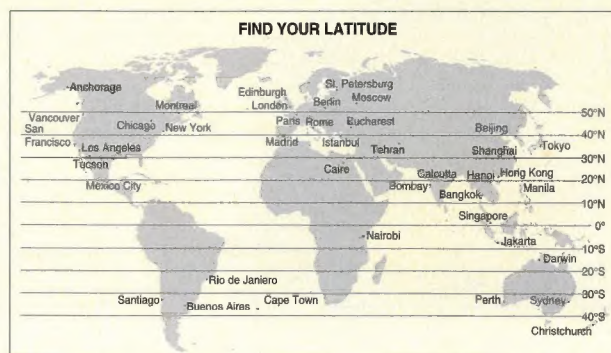
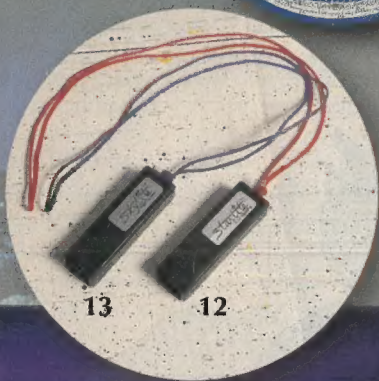


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9 • The Night Sky Planisphere

By David Chandler

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45° N (S00D8) / 50° N (S00E8) / 30°–60° N multihorizon (S00F8)

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48302 . . . \$11.95

2 • The Edmund Sky Guide

By Terence Dickinson and Sam Brown

Bitten by the observing bug but not sure where to start? This detailed guidebook to the night sky is filled with useful information on identifying stars, reading charts, finding deep-sky wonders, and understanding sky motions. Hand-drawn illustrations help you with everything from star-hopping to identifying the constellations. A great field guide! 36 pages, 8½ by 11 inches, softcover.

09535 . . . \$6.95

3 • The Monthly Sky Guide, 4th Edition **Back in print!**

Ian Ridpath and Wil Tirion

This famous night-sky guide, organized month by month, is noted for its clear all-sky charts and useful close-ups interesting regions. Complementing the illustrations are tables and descriptions of constellations, star clusters, nebulae, galaxies, meteor showers, and planetary movements. Most of the sights discussed can be observed with binoculars or small telescopes, making this a straightforward introduction to the skies of the Northern Hemisphere for beginners of all ages. 64 pages, 8¼ by 11¼ inches, softcover Available in January 1998.

68390 . . . \$15.95

4 • Nightwatch: An Equinox Guide to Viewing the Universe, 2nd Edition

By Terence Dickinson

This delightful introduction to backyard astronomy offers clearly written text and user-friendly sky diagrams. *Nightwatch* covers the night sky, stargazing equipment, and observing basics, striking a perfect balance between not telling you enough and telling you more than you really want to know. It also suggests where to find more information as your interest in astronomy grows. Ages 12 and older. 160 pages, 10 by 10½ inches, spiralbound.

56897 . . . \$24.95

5 • The Backyard Astronomer's Guide

By Terence Dickinson and Alan Dyer

The companion volume to Dickinson's *Nightwatch* takes amateurs to the next level in pursuing their interest in astronomy. More than 200 astrophotos and illustrations accompany instructions on how to observe a wide variety of sky objects. The authors also cover the best way to select an observing site and the hows and whys of choosing binoculars and telescopes. A detailed guide to equipment places special emphasis on new products and innovations. Tips from well-known astro-experts round out this essential reference. 294 pages, 9¾ by 11¼ inches, hardcover.

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By David Chandler

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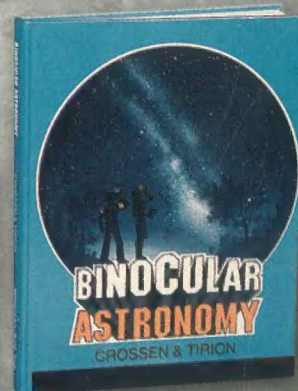
9 • Binocular Astronomy

By Craig Crossen and Wil Tirion

This engaging guide to the deep sky starts out with basic celestial concepts and observing techniques, then takes you on a season-by-season tour, pointing out interesting sights in each constellation — about 250 in all — as seen in ordinary 7 × 50 to 10 × 50 binoculars. Includes the magnitude-6.5 charts of the entire sky from *Tirion's Bright Star Atlas 2000.0* (see page 10) as well as detailed finder charts. A good choice for intermediate-level binocular observers. 224 pages, 8½ by 11 inches, hardcover.

96360 . . . \$24.95

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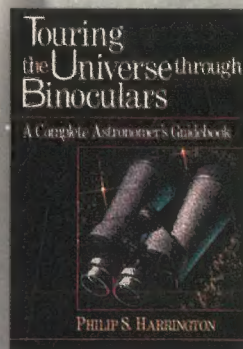
10 • Touring the Universe Through Binoculars

By Philip S. Harrington

Renowned skygazer and author Harrington describes more than 1,100 stars, clusters, galaxies, and nebulae visible with medium and large binoculars. Objects are arranged by constellation. The text includes sections on the Sun, Moon, planets, and asteroids. Use with a star atlas such as *Sky Atlas 2000.0* (page 8), *Uranometria 2000.0* (page 11), or the *Millennium Star Atlas* (page 12). 294 pages, 7 by 10 inches, softcover.

13377 . . . \$32.95

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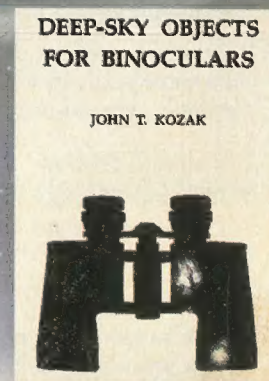
11 • Deep-Sky Objects for Binoculars

By John T. Kozak

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46506 . . . \$8.95

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See our Moon maps on page 16, too.

13 • Sky & Telescope's Pupil Gauge

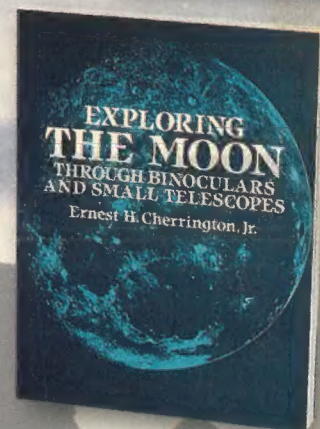
Every amateur astronomer should know his or her maximum pupil diameter. It's important for selecting the right binoculars and low-power telescope eyepieces. Find out yours with *Sky & Telescope's Pupil Gauge*. Includes background information and instructions. Flexible plastic.

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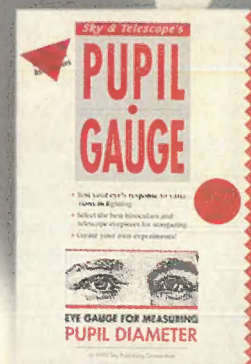
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To find celestial objects with binoculars or a telescope, you need a good star atlas. Without one you're lost in space! The fainter (higher numbered) a chart's limiting magnitude, the more stars it shows, but the more familiar you must be with the sky to navigate among them.

If you're using binoculars, you'll want an atlas that shows stars to magnitude 6 or 8. If you have a telescope, an 8th-magnitude atlas such as *Sky Atlas 2000.0* is essential. A more detailed atlas with a limiting magnitude of 9 or 10 (such as *Uranometria 2000.0* on page 11) allows you to locate faint objects better, once you know your way around the sky well enough to use it. Serious skygazers should consider the *Millennium Star Atlas* on page 12; it shows more than a million stars to 11th magnitude!

The sample chart areas illustrated at right are actual size.

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By Wil Tirion

The standard against which all other star atlases are measured! Each edition of *Sky Atlas 2000.0* contains 26 charts covering the whole sky.

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5 • Map Key and Coordinate Grid (Laminated)

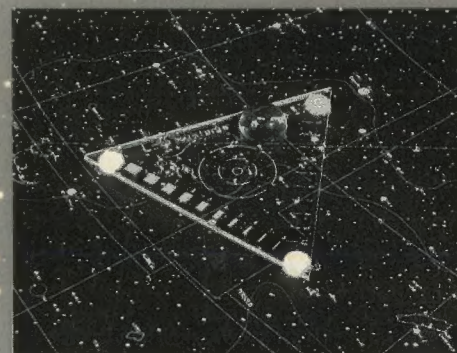
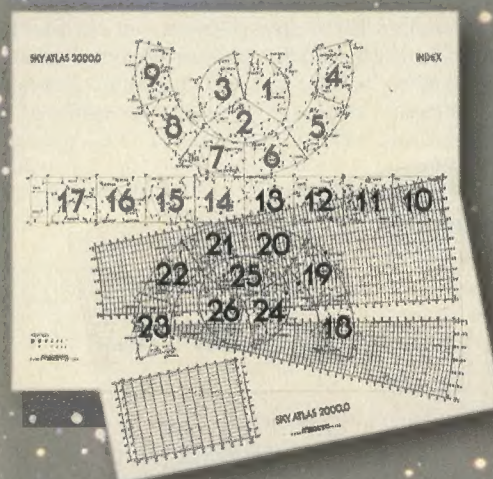
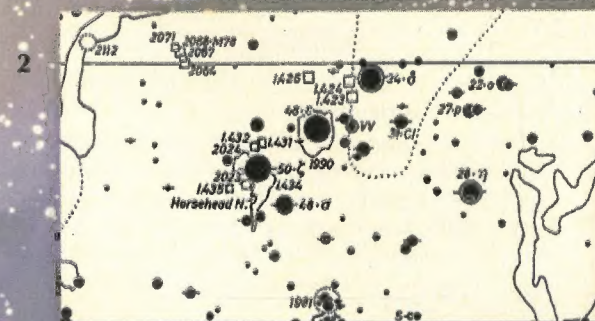
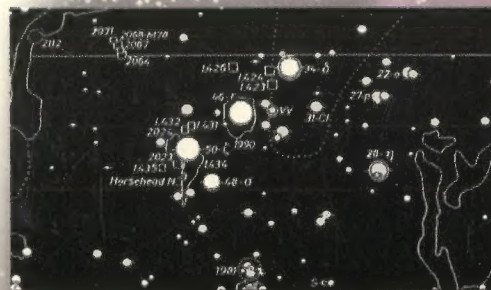
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S0081 . . . \$4.00

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7 • Sky Atlas 2000.0 Chart Carrier

If you have a Field or Desk Edition of *Sky Atlas 2000.0* and are looking for a convenient way to store and carry your charts and to protect them from dew, here's a nifty solution. This lightweight, custom-fit chart carrier is fashioned from water-resistant cordura, easily holds all 26 charts, and opens up flat for field use. Two charts at a time are visible through clear vinyl pockets that can be written on with an erasable marker (not included). Comes with a sturdy carrying handle, Velcro closure, and outside zippered pocket in which you can store your map key and coordinate grid, data scale, or other observing accessories.

SKYCC . . . \$19.95

8 • Sky Catalogue 2000.0, 2nd Edition

Vol. 1: Stars to Magnitude 8.0

By Alan Hirshfeld, Roger W. Sinnott, and François Ochsenbein

In this massive tabulation you'll find the essential characteristics of more than 50,000 stars down to visual magnitude 8. It is a written record of data for essentially every star plotted in *Sky Atlas 2000.0*, its companion atlas. Features:

- positions for epoch 2000.0 accurate to 1 arcsecond
- every star identified by its Henry Draper and SAO catalog numbers
- every star identified by constellation
- stellar magnitudes (V) and colors (B-V)
- complete spectral information
- distances and absolute magnitudes when known
- proper motions and radial velocities
- variables, binaries, and members of clusters flagged for easy identification.

An introduction explains how to interpret and use the data. 704 pages, 9 by 12 inches. Copublished by Sky Publishing and Cambridge University Press.

46646 Hardcover . . . \$59.95 • 46638 Softcover . . . \$39.95

9 • Sky Catalogue 2000.0

Vol. 2: Double Stars, Variable Stars, and Nonstellar Objects

By Alan Hirshfeld and Roger W. Sinnott

If you're into deep-sky hunting, you've got to have this book. Volume 2 catalogs 15 different classes of celestial objects (excluding isolated stars, which are covered in Volume 1). Data and notes are tabulated for 8,000 double and multiple stars of 8th magnitude or brighter; orbits of 500 visual binaries with an ephemeris for each; all known variables that reach or exceed magnitude 9.0; 750 open clusters; more than 120 globular clusters; bright diffuse, reflection, dark, and planetary nebulae; galaxies; quasars; radio sources; and X-ray sources. Additional tables include the Messier objects and the Local Group of galaxies. 442 pages, 9 by 12 inches, softcover. Copublished by Sky Publishing and Cambridge University Press.

46387 . . . \$39.95

10 • Sky Catalogue 2000.0 Diskettes (DOS, Mac)

Here are machine-readable versions of the two *Sky Catalogue 2000.0* volumes. Each comes with a demo program (written in BASIC) that allows you to extract all the catalogued objects within a specified window of sky. If you know BASIC, you can easily write your own applications.

Requirements: DOS: IBM compatible, DOS 3.3 or higher; Mac: 1 MB RAM, System 4.1 or higher, Finder 5.5 or higher. Note: The supplied BASIC program will not run on many Macintosh computers equipped with PowerPC processors. On such machines, you can examine the BASIC program in any word processor.

Volume 1, 2nd Edition Diskette:

S0027 DOS 3 1/2" . . . \$19.95 • S0073 Mac . . . \$19.95

New! Volume 2 Diskette: S2001 DOS 3 1/2" . . . \$19.95 • S2002 Mac . . . \$19.95

11 • Sky Atlas 2000.0 Companion

By Robert A. Strong

Overwhelmed by the breadth and depth of *Sky Catalogue 2000.0*? Here's some lighter fare: an alphabetical listing of every deep-sky object (but none of the stars) plotted on *Sky Atlas 2000.0*. Included are object type, coordinates, size, and brightness. Another set of tables gives a chart-by-chart listing of "faint fuzzies." 221 pages, 8 1/2 by 11 inches, spiralbound.

39301 . . . \$24.95

1 • Bright Star Atlas 2000.0

By Wil Tirion

This affordable starter atlas has 10 black-and-white maps covering the entire sky. It features 9,096 stars to magnitude 6.5, a list of the brightest deep-sky wonders (600 in all) facing each map, and 6 seasonal constellation finder charts. 32 pages, 9 by 12 inches, softcover.

96271 ... \$10.95

2 • The Cambridge Star Atlas, 2nd Edition

by Wil Tirion

This easy-to-use reference from the world's best-known celestial cartographer is an indispensable guide to the entire sky for beginning and intermediate skygazers. Pairs of monthly all-sky maps orient both Northern and Southern Hemisphere observers to the stars and constellations visible in the evening at different times of year. Next comes an atlas of the entire sky to magnitude 6.5 on 20 charts; stars are black, and deep-sky objects are color-coded for easy identification. Facing each chart is a list of its most interesting double stars, variables, star clusters, nebulae, and galaxies. There's a Moon map, too! 90 pages, 9¼ by 12¼ inches, hardcover.

60985 ... \$19.95

3 • Monthly Star Charts

By George Lovi and Graham Blow

For 25 years George Lovi's all-sky charts graced the center of *Sky & Telescope*. Now we offer the complete set — 12 Northern Hemisphere and 12 Southern Hemisphere charts — in one convenient volume. These maps depict the constellations with stars to magnitude 4.5, labeled with Greek letters and/or their common names. Northern maps show horizons every 10° from +20° to +50° latitude; southern maps range from -10° to -40°. Opposite each chart are an essay and tables and photos of key deep-sky objects. With white stars on a dark blue background, these charts are especially easy to read by red light. 56 pages, 11 by 13½ inches, spiralbound.

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4 • The Photographic Atlas of the Stars **New!**

By H. J. P. Arnold, Paul Doherty, and Patrick Moore

This beautiful atlas presents 45 glorious wide-field astrophotos taken from both the Northern and Southern Hemispheres. Each faces a detailed map (made from a negative of the same photo) labeling well-known stars and deep-sky objects. You won't find an atlas that does a better job than this one at showing how the sky really looks to the unaided eye or in binoculars! 224 pages, 11½ by 8¼ inches, hardcover.

35313 ... \$59.95

5 • Atlas of Deep-Sky Splendors, 4th Edition

By Hans Vehrenberg

This cherished volume helps the amateur astronomer pinpoint faint objects in the night sky. It features 113 wide-field photographs, 2½° square, of some 400 galaxies, nebulae, and star clusters in their surrounding star fields. Most are at the same scale (1° = 60 millimeters) to show the objects' relative sizes, structures, and locations. Descriptive text provides a bounty of historical and astronomical information. 242 pages, 9½ by 12¾ inches, hardcover.

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6 • AAVSO Variable Star Atlas, 2nd Edition

By Charles Scovil

The 178 charts in this approximately 9th-magnitude atlas plot all variables with a brightness range of more than 0.5 magnitude and a maximum brighter than 9.5. Many comparison-star magnitudes are given. Includes an index of variable stars by constellation. 205 pages, 8½ by 11 inches, loose-leaf binder.

4628X ... \$44.95

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7 • Uranometria 2000.0

By Wil Tirion, Barry Rappaport, and George Lovi

This advanced-level atlas for the experienced telescope user displays 332,000 stars to as faint as magnitude 9.5, plus 10,300 deep-sky objects. Each map has a labeled coordinate grid with lines for every degree of declination and similar intervals of right ascension. The scale is a generous 1.4° per inch. *Each volume contains 259 charts, 9 by 12 inches, hardcover.*

9614X Vol. 1: Northern Hemisphere to -6° . . . \$39.95

96158 Vol. 2: Southern Hemisphere to $+6^\circ$. . . \$39.95

8 • The Deep-Sky Field Guide to Uranometria 2000.0

By Murray Cragin, James Lucyk, and Barry Rappaport

This book gives essential data for the 10,300 deep-sky objects plotted in the two volumes of *Uranometria 2000.0*. Its 473 tables, each matching one *Uranometria* chart, list the coordinates, dimensions, magnitudes, and other data for each plotted object, plus notes. Indexed for easy reference. *408 pages, 9 by 12 inches, hardcover.*

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9 • Uranometria 2000.0 Data Scale

This handy gadget for use with *Uranometria 2000.0* lets you quickly determine the magnitudes of plotted stars and measure angular distances and telescope fields down to $\frac{1}{4}^\circ$. A "bull's-eye" shows the chart area visible in a Telrad $1\times$ finder. *Clear plastic.*

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10 • NGC 2000.0

Edited by Roger W. Sinnott

This updated and expanded edition of the *New General Catalogue* gives coordinates and visual data for 13,226 nonstellar objects. *NGC 2000.0* preserves the best of the original book and its two Index Catalogues (IC), while providing modern (2000.0) positions, magnitudes, sizes, and object-type identifications. Organized by right ascension, with cross-indexing by NGC and IC numbers. *304 pages, 6 by 9 inches, softcover.*

46514 . . . \$14.95

11 • NGC 2000.0 Diskette (DOS, Mac)

A machine-readable version of the book, minus the constellations, descriptions, and indexes. Comes with a demo program (written in BASIC) that allows you to extract all the NGC and IC objects within a specified window of sky; if you know BASIC, you can easily write your own applications.

Requirements: PC: IBM compatible, DOS 3.3 or higher; Mac: at least 1 MB RAM, System 4.1 or higher, Finder 5.5 or higher.

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S0042 Mac . . . \$14.95

12 • Deep-Sky Planner, Version 2.0 (Windows) New!

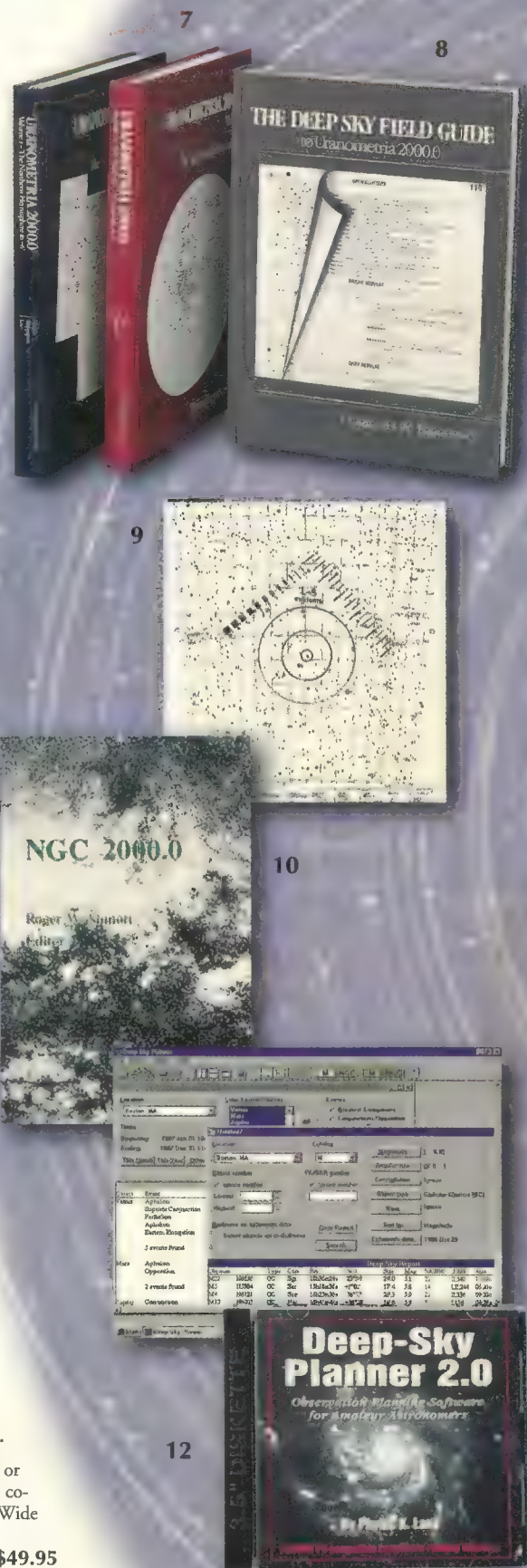
By Phyllis K. Lang

Make your next night of celestial sightseeing more efficient with this updated observation-planning program. With 10 astronomical catalogs in its database, *Deep-Sky Planner* creates customized reports of solar-system and nonstellar objects based on your selection criteria and viewing location. *DSP 2.0* offers essential data for any object you specify, cross-referenced to its chart number in *Sky Atlas 2000.0* and *Uranometria 2000.0*. Select objects by catalog, constellation, type, magnitude range, angular size, rise or set times, or combinations thereof. Or, choose a point in the sky and find out what deep-sky objects lie within a specified radius of it. Version 2.0 allows you to calculate ephemerides, including physical ephemerides, for the Sun, Moon, and all planets except Earth. You can also calculate times of eclipses, oppositions, greatest elongations, perihelions, lunar phases, and more.

System requirements: IBM PC-compatible computer running Windows 3.1/3.11/95 or OS/2 Warp 3.0 or higher; VGA or SVGA video; 4 MB RAM (8 MB recommended); 3.5 MB free hard-disk space. Math co-processor strongly recommended but not required. Learn more about Deep-Sky Planner on the World Wide Web at <http://www.skypub.com/catalog/dsp20/dsplan.html>

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In collaboration with the European Space Agency's Hipparcos Project, *Sky & Telescope* introduces the first all-sky atlas based on the new stellar positions, brightnesses, and distances from the Hipparcos and Tycho Catalogues. The *Millennium Star Atlas* is a large-format observing aid designed for active field use by professional astronomers and serious amateurs.

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Complementing the Hipparcos data, *Sky & Telescope* has selected for inclusion a rich treasury of 10,000 nonstellar objects, many drawn to scale:

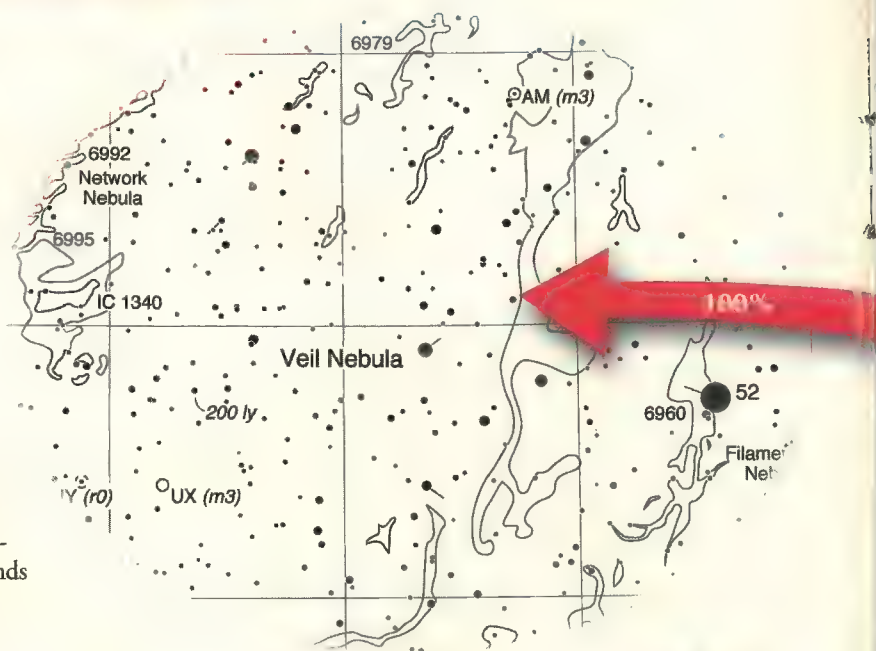
- 900 bright, dark, and planetary nebulae
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- 930 galaxy clusters and quasars observable with backyard CCD equipment

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About Hipparcos

In June 1997 the European Space Agency (ESA) published the long-awaited results of its Hipparcos astrometry mission. Launched in 1989, the Hipparcos satellite spent more than three years measuring stellar positions, brightnesses, and distances with unprecedented accuracy. After several additional years of painstaking data analysis, project astronomers have now begun to share the scientific fruits of this historic mission with the world.

The Hipparcos Catalogue offers milliarcsecond astrometry and millimagnitude photometry for more than 118,000 stars. The Tycho Catalogue provides data for more than a *million* stars with precisions measured in tenths to hundredths of an arcsecond or magnitude. Between them these catalogues reveal thousands of new variables and multiple stars. As the first stellar databases made from space-based observations, Hipparcos and Tycho will remain the definitive astrometric and photometric catalogues for many years to come.

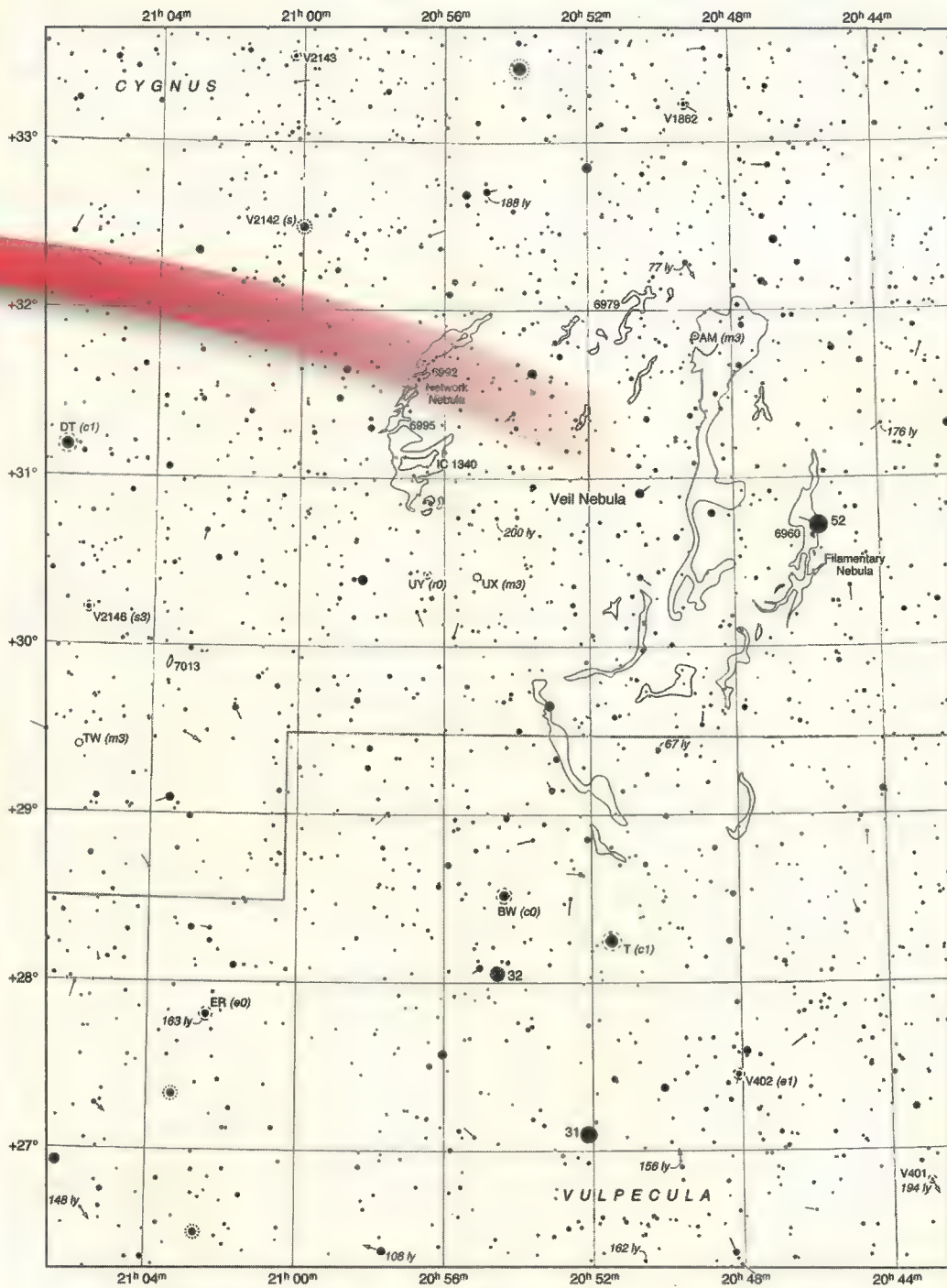
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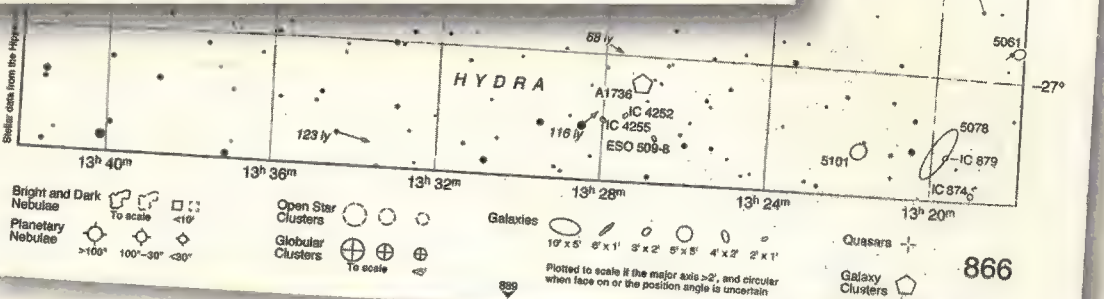
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64% of actual size



-24°

13h 24m 13h 20m

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5087°

IC 4237

5068

A1709

5084

ESO 576-31

ESO 576-32

120 ly

HYDRA

46 ly

132 ly

5085

190 ly

IC 4231

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IC 879

IC 874

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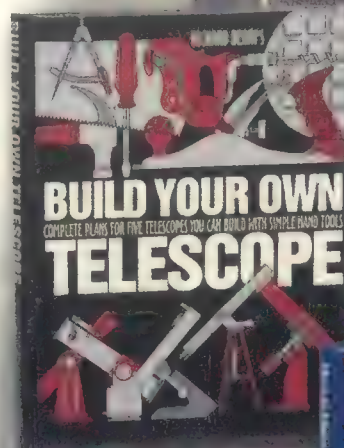
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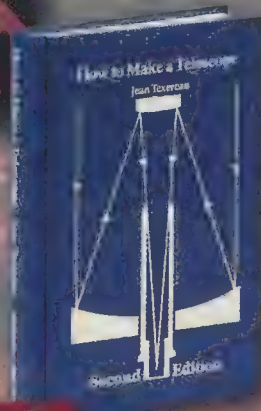
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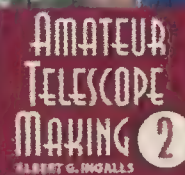
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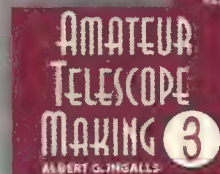
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The history of the telescope parallels revolutions in scientific thought and advances in astronomical discovery. In this unique perspective on our astronomical heritage, Britain's foremost science popularizer traces the development of the telescope from the earliest optical devices through the saga of the Hubble Space Telescope. Based on the 40th anniversary program of *The Sky at Night*, the author's popular TV series. 114 pages, 6 by 9 1/4 inches, softcover.

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By Christopher R. Kitchen

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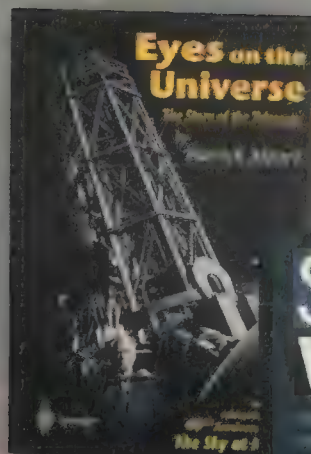
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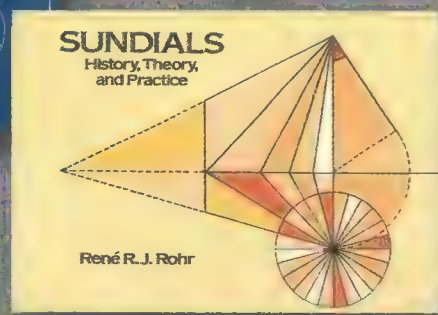
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12

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This striking objet d'art by Joseph Z. Niesyn transforms an ordinary 16-inch Earth globe into a marvelous astronomical teaching and learning tool. Set inside a smoked-Plexiglas box, the globe recreates the appearance of our home world floating and spinning in space. Just as in nature, the illumination changes with the seasons — you can actually see how different locations on Earth receive different amounts of sunlight throughout the year, or simulate sunrise and sunset from any location! *17½ by 17½ by 23 inches; minimal assembly required.*

Note: This item is custom built and shipped to the customer directly from the artist's studio by United Parcel Service. Please allow 4 weeks for delivery.

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11 • BAA Chart of the Heavens

By Wil Tirion

The British Astronomical Association's panoramic wall chart shows the entire night sky, divided into north and south polar regions and equatorial zones. Celestial cartographer Wil Tirion has plotted stars down to magnitude 5.5 and used symbols to mark the positions of double and variable stars, clusters, nebulae, and galaxies. 27 by 19 inches; shipped rolled in a sturdy cardboard tube.

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12 • The Sky & Telescope Venus Globe

Our 12-inch scale model of Venus is based on radar data from the Magellan orbiter, which mapped the planet's surface from 1990 to 1994. It is color coded to represent elevation, and all major landforms are labeled. Produced in cooperation with NASA and the U.S. Geological Survey. **Bonus!** Each globe comes with "Exploring Venus," a 24-page reprint from *Sky & Telescope*. Explore craters, faults, lava plains, and bizarre "pancake" domes — in eye-popping 3-D! Includes two pairs of 3-D glasses.

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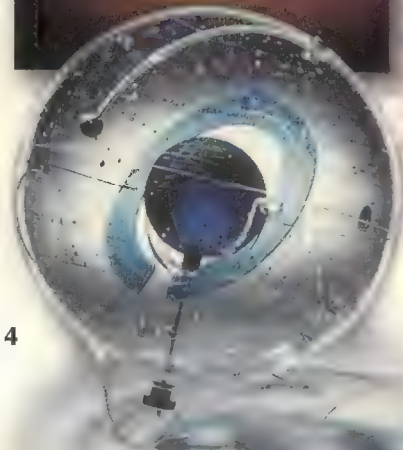
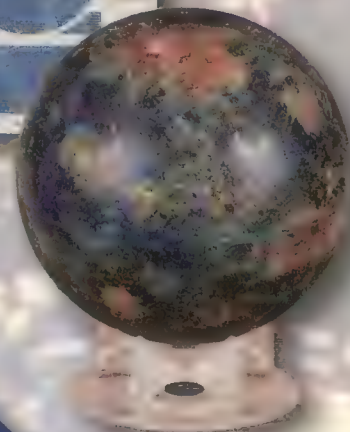
This unusual two-way lighted globe is a real conversation-starter! When the internal light is off it's a detailed celestial globe. Click the light on and dozens of mythical constellation figures appear in glorious color! All 88 constellations are displayed on this 12-inch orb, which comes with a plastic base and semimeridian. Cord plugs into a 115-volt AC outlet.

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14 • Starship Earth: The Great Celestial Sphere

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STSHP . . . \$394.95



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We've put photographs of all 109 of Charles Messier's deep-sky delights on this handsome wall poster. Complementing the crisp black-and-white images is brief background information about the objects, as well as three quick-reference tables that classify them by constellation, coordinates, and object type. Turns any wall into a deep-sky showcase! 24 by 36 inches.

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2 • Sky & Telescope's Messier Card

Redesigned and updated, this quick-reference data card lists the positions (equinox 2000.0), sizes, and magnitudes of all 109 Messier objects, plus 20 additional deep-sky gems. Perfect for Messier marathons! *Optional laminated finish protects it indefinitely against moisture and wear.* 12 by 9 inches.

S001L Laminated . . . \$3.95

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3 • The Messier Album

By John Mallas and Evered Kreimer

For each of Messier's star clusters, nebulae, and galaxies, you'll find modern and classical descriptions of its visual appearance, a photograph, a finder chart, and interesting "astro-facts." Includes an introductory chapter by historian of science Owen Gingerich. 248 pages, 6 by 9 inches, hardcover.

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4 • Messier Marathon Observer's Guide

By Don Machholz

Log all the Messier objects in a single night! The Messier Marathon — a mad dash from target to target lasting from dusk to dawn — has become an annual rite. It is possible only in late March and early April, when the Sun lies in a part of the zodiac devoid of Messier objects. This handy guidebook from a veteran comet hunter and one of the challenge's originators tells how to plan your search sequence, lists the best dates each year through 2019, and includes detailed finder charts specially designed and ordered for marathoners. 97 pages, 8½ by 11 inches, spiralbound.

46050 . . . \$12.00

5 • Beyond Messier: The Caldwell Catalog

By Patrick Moore and M. Barlow Pepin

Beloved English astronomer Patrick Moore introduces his Caldwell list, and M. Barlow Pepin elaborates on it, in this 8-page reprint (revised and updated) from the December 1995 *Sky & Telescope*. It's the definitive guide to 109 deep-sky treasures that Messier overlooked. Take the Caldwell Challenge: see how many of these telescopic targets you can view from your favorite observing site. Order copies for everyone in your astronomy club or classroom! 8½ by 11 inches, 8 pages.

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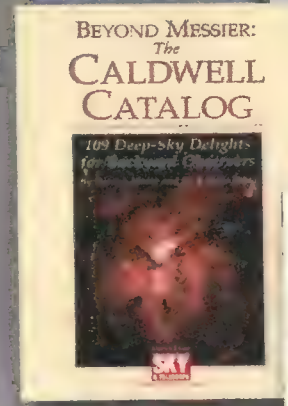
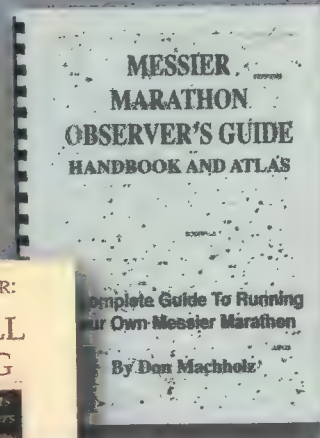
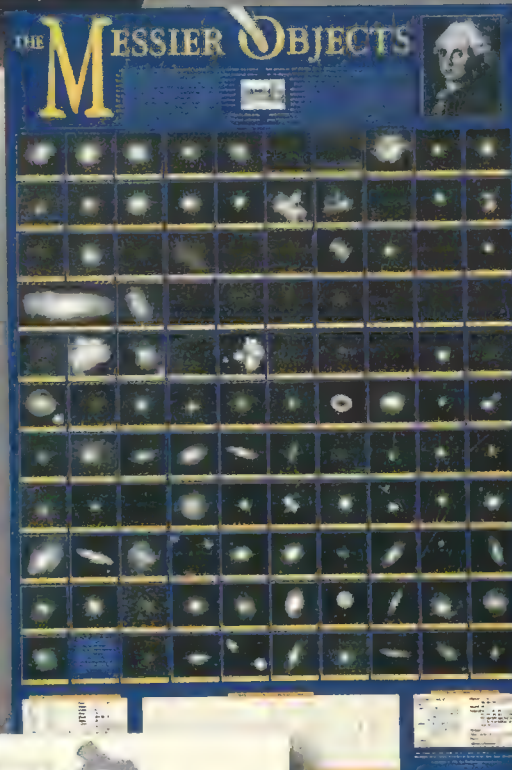
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Modeled after our popular Messier Card, this handy observing aid charts the location of each object on an all-sky map on one side and tabulates the positions (2000.0), sizes, and apparent magnitudes of the objects on the other side. *Optional laminated finish protects it indefinitely against moisture and wear.* 12 by 9 inches.

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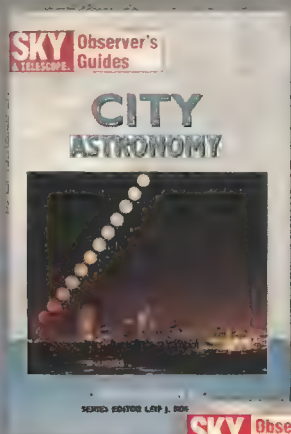
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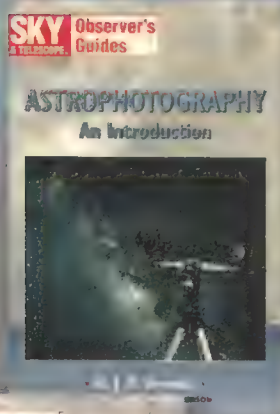
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7 • City Astronomy

By Robin Scagell

Amateur astronomers who live in light-polluted cities can enjoy observing without driving hours into the countryside in search of pitch-black night skies. After discussing the impact of urban lighting on recreational astronomy, this book focuses on solutions. Includes:

- spotting the right weather conditions for optimal observing
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- getting the best out of black-and-white and color film
- photographing the Sun, Moon, planets, meteors, comets, stars, and satellites, with or without a telescope
- capturing rainbows, halos, and other atmospheric phenomena
- how to protect your film and develop pictures in a hotel room
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Here is the perfect reference for anyone who owns a telescope or a pair of binoculars but doesn't know what to look for amid the constellations. Deep-sky aficionado Harrington surveys the best double and multiple stars, variable stars, open and globular clusters, nebulae, and galaxies. Then he explains how to find them and what you'll see when you do. Includes:

- an introduction to the wide variety of observable deep-sky objects
- 36 full-page sky charts showing all the objects discussed in the text
- historical background on the most popular deep-sky catalogs
- suggestions for what equipment to use for different types of observations
- detailed descriptions of more than 300 of the finest deep-sky targets
- "eyepiece impressions" — sketches that show what clusters, nebulae, and galaxies *really* look like through a small telescope
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- more than 100 superb black-and-white photographs.

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1 • Turn Left at Orion, 2nd Edition

By Guy Consolmagno and Dan M. Davis

Are you just starting out in astronomy and looking for an observing guide designed for you and your small telescope? Look no further! This newly revised guidebook — with tables of information accurate through A.D. 2006 — contains viewing tips as well as clear instructions on how to find 100 interesting night-sky objects. It also offers realistic sketches of what you will see in the eyepiece. 205 pages, 9 by 11 inches, hardcover.

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2 • Cambridge Guide to the Stars and Planets **New!**

By Patrick Moore and Wil Tirion

Need a good field guide on your next viewing session? This comprehensive handbook to the stars and planets is a great addition to your traveling astronomy library. It features Wil Tirion's exquisitely-drafted charts of the stars in all 88 constellations. Included are the brighter nebulae and galaxies, as well as clear explanations of the more interesting objects. This useful compendium includes a concise 9-chapter overview of astronomy and is perfect armchair reading for those nights when you're clouded out! 256 pages, 5 by 7 1/4 inches, softcover.

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This three-volume travelogue of the cosmos is a modern classic. Following an introduction for beginning observers are 2,138 descriptive pages on thousands of stars and deep-sky objects within reach of 2-inch or larger telescopes. Organized alphabetically by constellation, each chapter includes tables of double and multiple stars, variable stars, star clusters, nebulae, and galaxies, as well as detailed articles and essays. Hundreds of charts and diagrams; more than 300 photographs. Each volume 6 by 9 inches, softcover.

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By Antonín Růkl

Have you seen all that the Moon has to offer? This atlas contains 76 exquisitely detailed, fully labeled, pen-and-airbrush maps of the Moon's near side, plus 50 close-up photographs. Each is accompanied by brief descriptions of prominent formations and their historical namesakes. Get to know our nearest neighbor! 224 pages, 8 3/4 by 11 3/4 inches, hardcover.

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By Gerald North

This book is for backyard astronomers who want to move beyond elementary stargazing to more challenging projects. Author North, himself an accomplished amateur, reviews observing techniques, the fundamentals of practical astronomy, including telescope optics, atmospheric seeing, eyepiece designs, astrophotography, and electronic imaging, photometry, spectroscopy, and radio astronomy. Take your hobby to the next level! 7 by 10 inches, hardcover.

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Plan your eclipse chases into the next century with this complete guide to nature's grandest spectacles. Experienced amateur astronomer and eclipse aficionado Phil Harrington gives solid advice about observing both solar and lunar eclipses, augmented with detailed accounts of what to expect during every such event to occur during the next 20 years. Spiced up with first-person anecdotes from the author and numerous other well-known amateur astronomers, this handy guidebook is sure to give the "eclipse bug" to anyone who hasn't caught it already! 284 pages, 7½ by 9¼ inches, softcover.

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The original German edition of this comprehensive observer's guide to the Sun was an instant classic. Now available in English for the first time, it has been revised, updated, and more lavishly illustrated with black-and-white diagrams and photographs. Includes a buyer's guide to telescopes and accessories for solar astronomy, an inspiring discussion of the many types of observations that are within range of amateurs, tips for planning eclipse expeditions, and an extensive bibliography. 516 pages, 6¼ by 9¼ inches, hardcover.

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9 • Fifty Year Canon of Solar Eclipses: 1986–2035*By Fred Espenak*

Find out when and where every eclipse of the Sun — total, partial, or annular — will occur during the next few decades. General characteristics are listed for eclipses occurring between 1901 and 2100. Detailed world maps show paths of totality and annularity. For eclipses from 1986 to 2035, precise latitudes and longitudes along the eclipse centerline and northern and southern limits are given, and the regions of visibility of both partial and central phases are depicted on world globes. 278 pages, 8½ by 11 inches, softcover.

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10 • Fifty Year Canon of Lunar Eclipses: 1986–2035*By Fred Espenak*

This book catalogs the general characteristics of every lunar eclipse from 1901 through 2100. Illustrations show the path of the Moon through Earth's shadow and the global visibility of each eclipse. Predicted contact times and other details are supplied for every lunar eclipse from now through 2035. Eclipse geometry, frequency, and other topics are also covered. 232 pages, 8½ by 11 inches, softcover.

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11 • Hartung's Astronomical Objects for Southern Telescopes, 2nd Edition*By David Malin and David J. Frew*

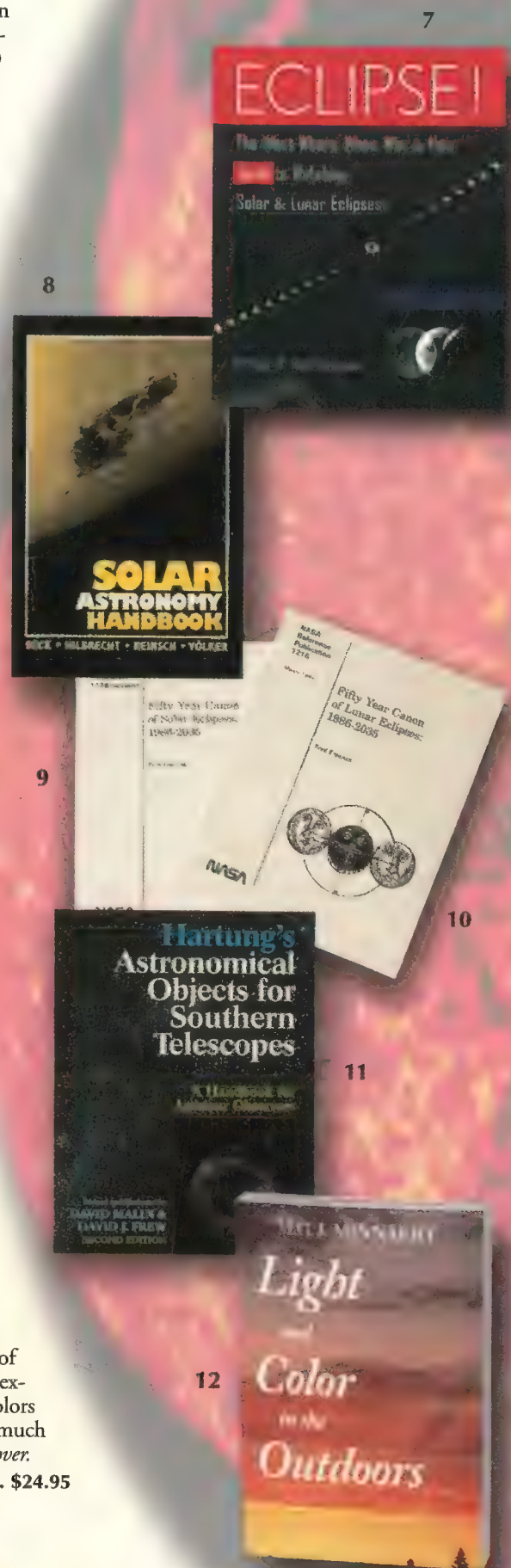
Many of the most spectacular and interesting celestial objects are found in the magnificent skies of the Southern Hemisphere. This recently revised, beautifully illustrated handbook will help you find and appreciate them, whether you live south of the equator year-round or just plan to visit. Includes a "southern Messier catalog" of deep-sky gems. 428 pages, 7 by 10 inches, hardcover.

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This beloved classic, translated and updated by Len Seymour, examines a wide range of "magical" everyday optical effects that can be observed with the naked eye. Minnaert explains atmospheric halos, the green flash of the setting Sun, rainbows, twilight, the colors of shadows, freak reflections, afterimages, contrast effects, black snow, mirages, and much more. Contains 80 new photographs, 52 in full color. 434 pages, 6¼ by 9½ inches, softcover.

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1 • RealSky CD (Mac, Windows) **New!**

Have the entire sky at your fingertips! This set of 20 CD-ROMs, produced by the Space Telescope Science Institute and the Astronomical Society of the Pacific, contains all the wide-field images from the historic Palomar Observatory Sky Survey and its southern extension from the Royal Observatory, Edinburgh. The northern set, on eight CD-ROMs, features red-light images from the north celestial pole down to a declination of -15° . The southern set, on 10 CDs, features blue-light images from the south celestial pole up to the celestial equator. RealSky shows you the sky as it really appears through a telescope, with 1- to 2-arcsecond resolution and revealing stars down to 19th or 20th magnitude. FITS-format images can be exported to other programs as bitmaps. A must-have for serious astronomy enthusiasts!

Requirements: PC: 486/66 MHz or Pentium processor, Windows 3.1/3.11 (Windows 95 or NT recommended), 16 MB RAM, SVGA monitor, CD-ROM drive; Mac: LCII (68040/25 MHz) or PowerMac, System 7.0 or higher, 16MB RAM, CD-ROM drive.

Northern Sky: REALSKYN . . . \$249.95

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RealSky CD (both hemispheres): REALSKY . . . \$449.95

2 • RedShift 2 CD-ROM (Mac, Windows)

Award-winning *RedShift* has long been the program to get if you get only one, and version 2 makes it more so! Visually stunning and scientifically accurate, *RedShift 2* takes you exploring through the universe. Witness the birth of a star or view the night sky as seen by the ancient Egyptians. Visit the Horsehead Nebula or hitchhike your way through the solar system. A major upgrade to the original *RedShift*, this program makes astronomy accessible to beginners and at the same time delivers the high accuracy required by serious astronomy enthusiasts. Includes an illustrated, animated astronomical dictionary.

- 250,000 stars; 40,000 deep-sky objects; 5,000 asteroids
- More than 700 glorious, full-screen celestial images
- Dynamic solar-system model with 3-D planets and moons
- Dozens of movies and animations, with sound and music.

Requirements: Windows: IBM compatible, 386SX CPU (486 or Pentium recommended), 8 MB RAM, 256-color SVGA display, Windows 3.1x/95, 2X CD-ROM drive, Windows-compatible sound card, mouse; Mac: Mac LCII or better with System 7.0 or higher (or Power Mac 6100 or better with System 7.1.2 or higher), 8 MB RAM, 2X CD-ROM drive, thousand-color display, QuickTime 2.0 or higher, mouse.

REDCD . . . \$45.95

3 • TheSky Level IV, Version 4.0 (Windows)

TheSky combines speed and accuracy with an interface that's very easy to use. If your PC runs Windows 95 or NT, you can take full advantage of its enhanced capabilities with this 32-bit version of this best-selling program. And if you're still using Windows 3.1 (or 3.11), the Microsoft Win32s extension (included) lets you use *TheSky* with your familiar Windows environment. Features include:

- the Hubble Guide Star Catalog's 19 million stars and nonstellar objects
- more than 100,000 multiple and variable stars and deep-sky objects
- more than 750 color images of the planets and deep-sky objects
- isophotes (outlines) of nebulae and other extended objects
- enhanced star-chart printing
- animate solar-system objects; view eclipses and occultations
- accurately depict the night sky for any date from 4713 B.C. to A.D. 10,000, from any location on Earth.

TheSky works seamlessly with the *RealSky CD* too; overlay *TheSky's* charts on real images of the cosmos! Watch *Sky & Telescope* for news of the forthcoming Mac version!

Requirements: IBM-compatible PC with 486DX/33 or better CPU, Windows 95/NT (or Windows 3.1/3.11 with DOS 5.0 or higher), 8 MB RAM, math coprocessor, 35 MB free hard-disk space, CD-ROM drive, VGA or better display, mouse.

4486W . . . \$229.95



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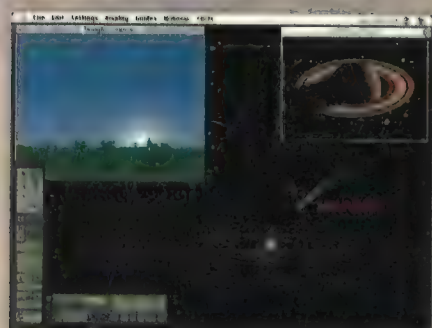


4 • Comet Explorer (Windows) **New!**

Explore the nature of comets with this interactive multimedia CD-ROM from Cyanogen Productions! From Halley to Hale-Bopp, you'll find a variety of images, animations, and breathtaking time-lapse sequences of the latest and greatest comets. A comet-hunting simulation and video clips of successful comet-seekers talking about their hobby help you learn to be a comet-hunter too. As a bonus, the powerful shareware planetarium software *Earth-Centered Universe* is included on the disc too!

Requirements: IBM-compatible PC with 486 or better CPU (Pentium recommended), 8 MB RAM, Windows 3.1/95/NT, CD-ROM drive, 16-bit or 24-bit color video recommended.

COMETEX . . . \$29.95



5

5 • Starry Night Deluxe (Mac)

The most talked-about astronomy program of the year is now even more powerful and easy to use. It will show you what's up in the sky as seen from any planet or moon at any time, take you on a virtual tour of the solar system, and even control your Meade LX200 telescope. Use it to plan your next observing trip, print customized star charts, and learn about celestial mechanics using its unique Orbit Editor. *Starry Night Deluxe* features:

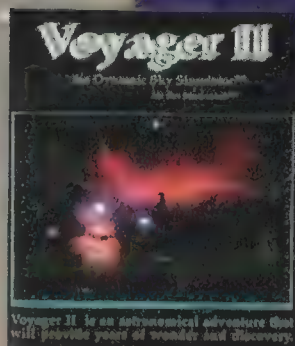
- nearly 20 million stars and deep-sky objects from the Hubble Guide Star Catalog
- photorealistic planets and close-up images of the Messier objects
- multiple viewing windows: watch an eclipse from the Sun, Earth, and Moon at once!
- add artificial satellites and newly discovered comets and asteroids with the orbit editor
- follow Comet Hale-Bopp's progress through the solar system
- generates stunning QuickTime movies of astronomical events.

Watch *Sky & Telescope* for news of the forthcoming Windows 95 version!

Requirements: System 7.0 or later, 8 MB RAM, CD-ROM drive, monitor capable of displaying thousands (preferably millions) of colors.

SNDSD . . . \$89.95

6



6 • Voyager II, Version 3.0 (Mac)

The most popular planetarium program for Macintosh computers, *Voyager II* is unequalled in speed, accuracy, versatility, and ease of use. Tour the solar system to see Jupiter's whirling moons, Comet Hale-Bopp, or a panoramic view of the Milky Way. Pinpoint the locations of black holes and quasars.

- 259,000 SAO stars; 40,000 double and variable stars; 20,000 deep-sky objects
- Dual sky display, satellite tracking, enhanced printing, and optional telescope control
- thousands of comets and asteroids
- 64 color images of celestial objects; add your own
- Create your own QuickTime movies of celestial events
- CD-ROM contains the 19 million celestial objects in the Hubble Guide Star Catalog and more than 800 astronomical images.

Watch *Sky & Telescope* for news of the forthcoming Windows 95 version!

Requirements: Color 68K Macs or Power Macs, including portables. System 7.0 or later. Minimum 2 MB RAM, 5 MB free disk space, 3½" disk or CD-ROM drive. Color display recommended. Accelerated for Power Macintosh.

S0104 . . . \$119.95

7



7 • Astroware 1 CD-ROM (DOS, Windows, OS/2, Mac, UNIX)

First in a new series of software tools for professional and amateur astronomers, this ISO-9660 disc contains thousands of shareware ("try-before-you-buy") and freeware files for PCs, Macs, and UNIX workstations. Includes source code and text files, as well as programs to plot star charts, process CCD images, plan solar-system and deep-sky observations, design telescope optics — you name it!

76034 . . . \$39.95

E-mail your order to **orders@skypub.com**

1 • The Cambridge Astronomy Dictionary **New!**

This compact, easy-to-read dictionary has more than 1,000 clear and up-to-date entries, all extensively cross-referenced. Diagrams and tables of data, abbreviations, and symbols complement the definitions. 240 pages, 5¾ by 8¾ inches, softcover.

89916 . . . \$14.95

2 • Star Names: Their Lore and Meaning

By Richard Hinckley Allen

An essential reference for star lovers, this Victorian-era treasure traces the heritage and history of all the constellations, their important stars, and other celestial bodies. 594 pages, 5½ by 8½ inches, softcover.

10790 . . . \$12.95

3 • Dictionary of Minor Planet Names, 3rd Edition **New!**

By Lutz D. Schmadel

In this authoritative book you'll find the names and meanings of more than 5,000 asteroids. This collection provides interesting historical insight into the astronomers who named their discoveries after gods, goddesses, philosophers, musicians, scientists and others. 937 pages, 6¼ by 9½ pages, hardcover.

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4 • History of Astronomy: An Encyclopedia **New!**

Edited by John Lankford

This sweeping volume offers more than 300 carefully researched and easy-to-read essays on the development of all major fields in astronomy. Surveys of astronomical research around the world, biographies of important individuals, and histories of major institutions round out this detailed compilation. 594 pages, 7¼ by 10¼ inches, hardcover.

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5 • The Great Copernicus Chase and Other Adventures in Astronomical History

By Owen Gingerich

Join Harvard astronomer-historian Gingerich in his search for all existing copies of Copernicus's monumental *De revolutionibus*. This title essay opens an engaging anthology of 36 episodes in astronomical history, including the origin of the zodiac, the first photograph of a nebula, and the discovery of Mars's moons. 320 pages, 7½ by 9¾ inches, hardcover.

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6 • The Astronomical Scrapbook

By Joseph Ashbrook

For 23 years Ashbrook's "Astronomical Scrapbook" column in *Sky & Telescope* took readers down little-known byways of astronomy, profiling the geniuses, toilers, and crackpots who traveled them. This text gathers 91 of his best articles. 468 pages, 6 by 9 inches, hardcover.

46247 . . . \$18.95

7 • Astronomy Explained **New!**

By Gerald North

If you've always wanted to learn more about astronomy but didn't want to wade through a mammoth introductory textbook, here's your solution! It's a complete, self-contained introductory course in astronomy designed for individual exploration or classroom use. The author covers a variety of topics in language that's easy-to-understand yet precise. 330 pages, 6¼ by 9¼ inches, softcover.

61365 . . . \$24.95

8 • The Universe at Your Fingertips

Edited by Andrew Fraknoi

This publication collects dozens of astronomy-related activities and resources into a single giant guide for astronomy educators. Anyone who has ever thought of volunteering to teach some astronomy classes at the local school will do well to base the curriculum on the material contained in this comprehensive teaching and learning aid. It's also a great source of ideas for Astronomy Day activities. 813 pages, 8½ by 11 inches, loose-leaf (fits in a 4-inch three-ring binder, not included).

33007 . . . \$29.95

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9 • The Astronomy and Astrophysics Encyclopedia*Edited by Stephen P. Maran*

This hefty reference work, with more than 400 articles, brings you lucid explanations by world-class scientists. Advanced amateurs, writers, teachers, and college students will find it an indispensable resource, well worth the price. 971 pages, 8½ by 11 inches, hardcover.

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10 • Encyclopedia of Planetary Sciences New!*Edited by James H. Shirley and Rhodes W. Fairbridge*

This authoritative compilation presents the state-of-the-art in planetary atmospheres and interiors, impact cratering, remote-sensing techniques, and all other aspects of planetary science. It also chronicles the history of the field and includes biographies of pioneering planetary astronomers and researchers in related disciplines. Illustrated with more than 450 line drawings, 180 black-and-white photographs, and 63 color illustrations. 990 pages, 8¾ by 11¼ inches, hardcover.

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11 • The New Solar System, 3rd Edition A bestseller!*Edited by J. Kelly Beatty and Andrew Chaikin*

This is a comprehensive, engaging account of our understanding of the solar system. Twenty-six planetary scientists examine the Sun, the planets and their moons, asteroids, comets. Profusely illustrated with planetary maps and the best photographs available. 326 pages, 8¾ by 11 inches, hardcover.

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12 • The NASA Atlas of the Solar System*By Ronald Greeley and Raymond Batson*

The cartographic results of four decades of solar-system exploration are gathered here into an unparalleled collection of color and black-and-white maps. Nearly every planet, moon, and small body that has been visited by a space probe or resolved by an orbiting telescope is included: Mercury, Venus, the Earth and Moon, Mars and its satellites, the gas giants of the outer solar system (including their moons and rings), Pluto, and many comets and asteroids. More than 360 images and maps!

380 pages, 12 by 18 inches, hardcover.

61272 . . . \$149.95

13 • Views of the Solar System New!*By Calvin J. Hamilton*

Take an exciting voyage of discovery through the solar system using your home computer and this hypertext-formatted CD-ROM. Using your Web browser (no Internet connection required) you can visit planets, moons, rings, comets, and asteroids — all with the click of a mouse. Includes a chronology of planetary exploration, extensive background information, video clips, glossary, bibliography, and special resources for educators.

Requirements: Macintosh: 68030 processor or faster; System 7.0 or higher; 4 MB RAM; 8 MB hard-disk space; 8-bit graphics (256 colors, 640-by-480 resolution); CD-ROM drive. Windows: IBM-PC compatible 40-MHz 386DX or better; Windows 3.1 with DOS 6.0 or Windows 95; 4 MB RAM; 8 MB hard-disk space; 256-color display adapter and monitor; CD-ROM drive.

VIEWSS . . . \$21.95

14 • Astronomical Algorithms*By Jean Meeus*

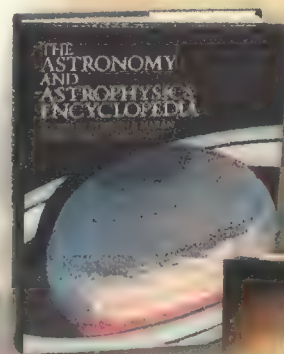
This handbook explains how to do myriad astronomical calculations with a calculator or computer. Fifty-five chapters cover everything from determining the tilt of Saturn's rings for a given date to precessing a star's coordinates for any epoch. Most formulas are presented with a numerical example. 429 pages, 6 by 9 inches, hardcover.

96352 . . . \$24.95

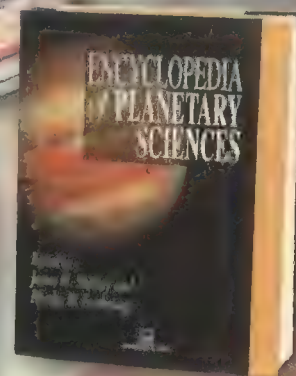
15 • Mathematical Astronomy Morsels New!*By Jean Meeus*

Interested in the frequency of blue moons? Wonder how often the planets group in the same area of the sky? Chances are you'll find what you're looking for in this masterful volume devoted to the detection of patterns and cycles in sky phenomena. Meeus offers detailed investigations into everything from planetary motions and lunar phases to the variability of sunspots and the dates of Easter. 379 pages, 6¼ by 9¼ inches, hardcover.

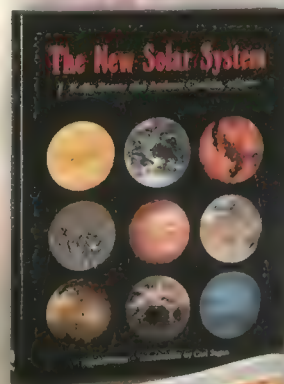
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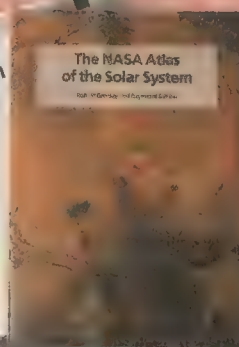
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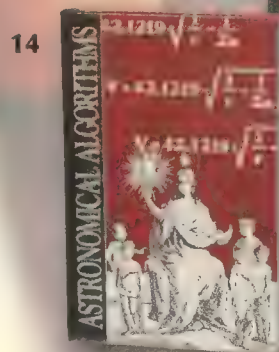
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1 • Hubble Vision: Astronomy with the Hubble Space Telescope **A bestseller!**

By Carolyn Collins Petersen and John C. Brandt

The Hubble Space Telescope has revealed spectacular and intriguing details of every celestial object upon which it has gazed. This book comprehensively reviews the most exciting science to come from the observatory during its first five years in orbit. Petersen, a talented science writer, and Brandt, one of the Hubble project's senior scientists, present dramatic images and compelling spectra of planets, comets, stars, nebulae, and galaxies, all supported by detailed and authoritative narrative. *256 pages, 9 1/2 by 11 inches, more than 100 color photographs and 50 black-and-white illustrations, hardcover.*

96438 . . . \$39.95

2 • Hubble Library of Electronic Picturebooks (Mac, Windows) **New!**

Exploring the universe just became a whole lot more fun! This CD-ROM from the Space Telescope Science Institute contains 16 electronic picturebooks of space images and artwork. Included are spectacular images and science from the Hubble Space Telescope and early Mars missions, views of Earth from orbit, detailed close-ups of the Moon from the Clementine spacecraft, Magellan's radar scans of Venus, space art by kids, and a lot more! Designed with a simple, elegant user interface, these picturebooks present scientific information in an easy and understandable manner. Great for individual or classroom use.

System requirements: Macintosh: 68020 or greater processor, 2.5 MB of available RAM, System 7.1 or greater, and 8-bit (256-shade) color or gray scale display. PC: 386 or better processor, 5 MB RAM, Windows 3.1/3.11/95, 640-by-480-pixel 256-color video, sound support (ability to play WAV files).

EPBOOKS . . . \$39.95

The following slide sets are great for lectures and presentations! Each comes with a booklet containing authoritative background information and detailed captions.

3 • Hubble Space Telescope Slide Set 5

Here are 20 of Hubble's "best shots" from 1995 and 1996, including the gas pillars of the Eagle Nebula; the Hubble Deep Field; the Orion Egg, and Hourglass nebulae; images of the outer planets; and more.

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4 • Hubble Space Telescope Slide Set 6 **New!**

Thirty more striking images from Hubble's 1996 observations: Martian dust storms, edge-on views of Saturn's rings, a look into the heart of the Lagoon Nebula, galaxy clusters, black holes, gravitational lenses, Hubble's 100,000th exposure, and more.

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5 • Starbirth in Serpens Poster **A bestseller!**

When Hubble captured a detailed close-up of starbirth in M16, the Eagle Nebula in Serpens, it also captured the imagination of millions of people around the world. The eerily three-dimensional image shows towering columns of cold, dusty gas spawning newborn stars, some of which are just emerging from their placental clouds. Now you can have your own copy of this glorious picture and hang it on your wall to share with family and friends. Our beautiful color poster is printed on high-quality paper and features not only the Hubble close-up but also a glorious wide-field photo of the Eagle Nebula, made by renowned astrophotographer David Malin with the Anglo-Australian Telescope. *36 by 24 inches.*

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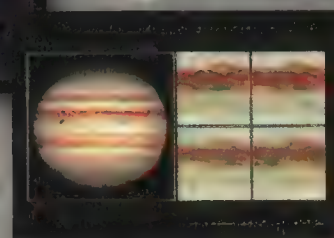


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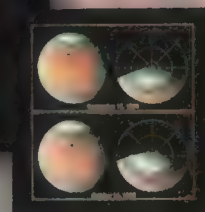
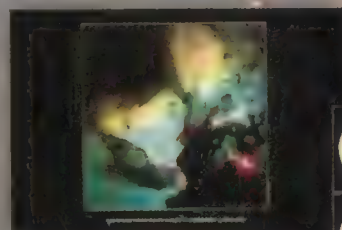
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5



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Dress up your observatory, den, or office with this stunning full-color poster showcasing 20 of the universe's best-known deep-sky wonders. The images were made by some of the world's most talented astrophotographers, and each one is accompanied by a short, descriptive caption. 24 by 36 inches.

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2 • A View of the Universe

By David Malin

"Just buy a copy — everyone should have one." — Sky & Space

This lavish pictorial journey through deep space showcases the breathtaking images of renowned astronomical photographer David Malin. Using some of the world's largest telescopes and innovative photo-processing techniques, Malin has captured galaxies, nebulae, and star clusters in their natural colors. The photographs — more than 100 in all — are accompanied by engaging and informative captions. 288 pages, 9³/₄ by 11 inches, hardcover.

46662 . . . \$39.95

3 • Aurora Poster*"One of the most beautiful posters this editor has ever seen."**— Association of Astronomy Educators Journal*

The aurora, one of nature's most awesome sights, is displayed in photographs showing its many forms and colors. A diagram illustrates how and why auroras occur, and a *Sky & Telescope* reprint explains the science behind them. 34 by 24 inches.

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In addition to our popular collection of images from the Hubble Space Telescope (see page 27) Sky Publishing continues to produce other 16-by-20-inch Spotlight Prints of outstanding celestial photographs. All are reproduced on high-quality Kodak paper and come with a description and instructions for care. Additional subjects are also available: for a complete list, see SKY Online at <http://www.skypub.com/catalog/images.html>.

4 • P0081 Andromeda Galaxy (M31)**5 • P0095 Comet Hale-Bopp and the Milky Way****6 • P0051 Moonrise**

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In cooperation with the Lunar and Planetary Institute (LPI) in Houston, Texas, Sky Publishing is pleased to introduce four slide sets featuring some of the best color and black-and-white images of our solar system. Each comes with a booklet of captions penned by planetary scientists, along with suggestions for further reading.

7 • A Spacecraft Tour of the Solar System **New!**

Piloted and robotic exploration of our planetary system has revolutionized our knowledge of the Sun and its family of planets and smaller bodies. The images in this slide set, most of them from NASA space probes, illustrate the principal distinctive features of all nine planets and their largest natural satellites, along with the Sun itself, the main-belt asteroid Gaspard, and the nucleus of Halley's Comet. 40 slides, 28-page caption booklet; compiled by James R. Zimbelman (National Air and Space Museum).

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8 • The Red Planet: A Survey of Mars **New!**

Many different types of geologic features on Mars are illustrated, including tectonic structures, volcanoes, impact craters, landslides, and features formed or modified by ice and water. Also included are images of the red planet's two small moons, Phobos and Deimos, and of Martian meteorites. 40 slides, 28-page caption booklet; compiled by Walter S. Kiefer, Allan H. Treiman, and Stephen M. Clifford (LPI).

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9 • Clementine Explores the Moon **New!**

The 1994 Clementine mission tested a new type of "smaller, faster, better" spacecraft and returned a vast suite of scientific data from the Moon. Clementine produced a high-resolution global map of Earth's companion world, enabling planetary scientists to study the Moon's geology at an unprecedented level of detail. *36 slides, 20-page caption booklet; compiled by Paul D. Spudis (LPI).*

SCLEM . . . \$29.95

10 • Ancient Life on Mars??? **New!**

In August 1996 scientists announced that they had found evidence of past microscopic life on Mars. This evidence included bacteria-shaped "fossils" and organic molecules in the Antarctic meteorite ALH 84001, which is believed to have been blasted from the Martian surface millions of years ago. This slide set looks at Mars as a possible abode for life, meteorite collecting in Antarctica, ALH 84001 and its possible traces of Martian life, and NASA's current program of Mars exploration. *40 slides, 40-page caption booklet; compiled by Pat Dasch (National Space Society) and Allan Treiman (LPI).*

SLIFE . . . \$29.95

11 • The Ultimate CCD Collection (Windows, Mac)

By Jack Newton and Don Parker

When you come across a "knock-your-socks-off" CCD image in *Sky & Telescope*, you often find Jack Newton's or Don Parker's name in the caption. Newton records deep-sky objects in glorious color using his 25-inch telescope in British Columbia, while Parker uses a 16-inch reflector to capture high-resolution views of solar-system objects from his Florida backyard. Now they have compiled more than 300 of their finest color CCD images of the Moon, planets, nebulae, and galaxies on one CD-ROM. All are supplied in 24-bit TIFF or JPEG format for maximum resolution and color definition, as well as in 8-bit bit-mapped format for quick looks. You also get time-lapse movies of Jupiter's rotation and Comet Hyakutake's motion against the starry background. *Includes an image viewer for Windows; PowerMac users will need separate image-viewing or image-processing software (not included).*

Requirements: Windows: IBM-compatible PC running Windows 3.1x/95/NT, 386 or better processor, 4 MB RAM, 2.5 MB of free hard-disk space, CD-ROM drive. Mac: Any color Power Macintosh equipped with software to display TIFF, JPEG, or bit-mapped images; CD-ROM drive.

ULTCD . . . \$29.95

12 • Glorious Eclipses Slide Set

"Absolutely stunning!" — *Astronomy Now*

Experience the grandeur of the 1991 total solar eclipse and other eclipses from the past 25 years. Nineteen full-color slides, chosen from the best images submitted to *Sky & Telescope*, offer dramatic views of the Sun's corona, fiery prominences, and the diamond-ring effect. The set also includes images of annular and lunar eclipses, and unique "sequence" shots. *Comes with an 8-page booklet of captions.*

S0057 . . . \$24.95

13 • Solar Eclipse Poster

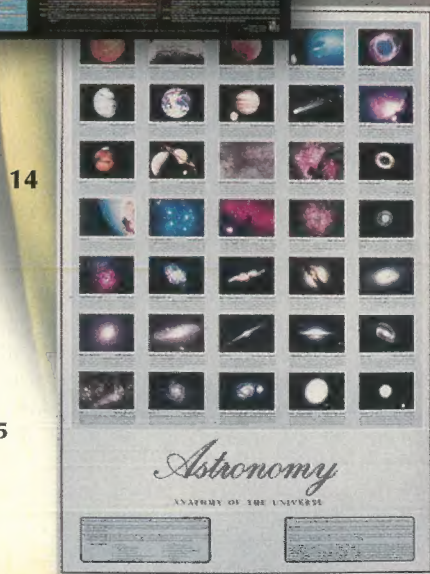
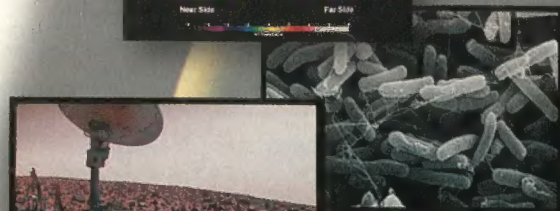
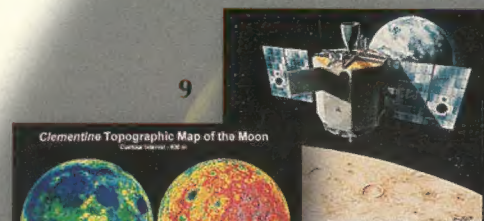
This wall ornament combines the splendor and science of nature's grandest spectacle. Exquisite color photographs capture the beauty of both total and annular ("ring of fire") eclipses, while diagrams and captions detail the anatomy of these dramatic events. Includes a map of every solar eclipse from now through the year 2008. *24 by 36 inches.*

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14 • Astronomy: Anatomy of the Universe Poster **A bestseller!**

Thirty-five color photographs depict many of the different types of objects known to exist in the universe. Includes the planets, nebulae, star clusters, galaxies, a quasar, a total lunar eclipse, and a comet. *24 by 36 inches.*

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1 • Astrophotography II

By Patrick Martinez

Sky shooters can quickly hone their photographic skills by following the advice and techniques in this book. Full of diagrams and photographs, it covers everything from piggyback to eyepiece-projection photography, and from focusing to reciprocity failure. 174 pages, 9 by 6 inches, hardcover.

96131 . . . \$18.95

See page 19 for *Astrophotography: An Introduction* by H. J. P. Arnold.

2 • Choosing and Using a CCD Camera

By Richard Berry

This book puts all the fundamentals of charge-coupled devices into easy-to-understand terms. It covers chip basics, the six types of CCD images, preparing your telescope for CCD imaging, and how to take and calibrate an image set. Comes with software and sample images for use on an IBM PC-compatible computer. So there's no need to own a CCD camera to become familiar with what it takes to produce spectacular images! 96 pages, 8½ by 11 inches, softcover.

9639T with 3½" DOS disk . . . \$29.95

3 • Introduction to Astronomical Image Processing

By Richard Berry

Berry uses down-to-Earth language to describe how to unlock the information contained in astronomical images. Includes AstroIP image-processing software and 19 sample images on two disks. 96 pages, 8½ by 11 inches, softcover.

9632T with 3½" DOS disks . . . \$29.95

Another great reference for the newcomers to electronic imaging is *The Art and Science of CCD Astronomy*, edited by David Ratledge, on the back cover. And for more advanced CCD users and do-it-yourselfers . . .

4 • The CCD Camera Cookbook

By Richard Berry, Veikko Kanto, and John Munger

This book provides step-by-step instructions and DOS software for building and testing two 12-bit CCD cameras, at a fraction of the cost of commercial units. The Model 211 camera is adequate for imaging the Moon and planets, searching galaxies for supernovae, and doing stellar photometry. Model 245 is a great deep-sky camera. 176 pages, 8 by 11 inches, softcover.

9641T with 3½" DOS disk . . . \$29.95

5 • A Practical Guide to CCD Astronomy **New!**

By Patrick Martinez and Alain Klotz

High-performance CCD cameras have opened an exciting window to the stars for thousands of amateur astronomers. Whether you own a CCD now or are contemplating buying one, this book offers tips on buying one, setting it up and using it. Packed with practical tips for the novice and experienced CCD user alike. 240 pages, 6 by 9 inches, softcover.

99504 . . . \$29.95

6 • MIRA AL (Windows 95/NT) **New version!**

This is professional-level image-processing and analysis software for the amateur CCD user. It's terrific for squeezing the last bit of detail out of your images, but where it really shows off is in enabling you to extract valuable astrometry and photometry from your data. Its custom, menu-driven, graphical user interface is remarkably easy to learn. The hefty *MIRA User's Guide* is packed with useful tips describing professional techniques for getting the most out of your images. This is version 5.0, the newest entry in the popular family of *MIRA* programs. Find out why *MIRA* is used by more professional astro imagers than all other commercial astronomical image-processing programs combined.

Requirements: IBM PC or compatible computer running Windows 95 or Windows NT 4.0; minimum 16 MB of RAM.

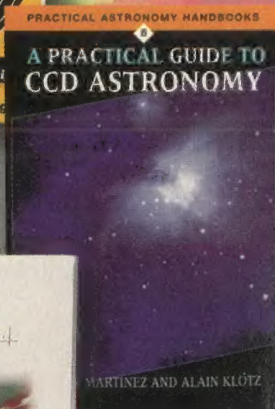
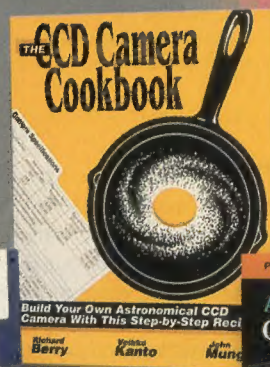
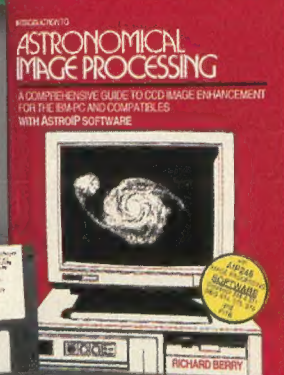
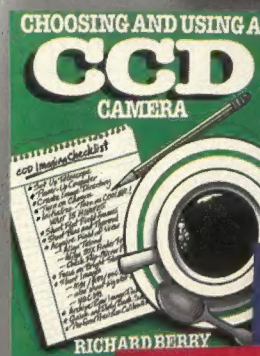
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Featuring the Techniques of the European Amateur

Patrick Martinez

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By Paul Schenk, David Gwynn, and James Tutor

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System requirements: This CD-ROM is compatible with Mac, PC, and Unix operating systems. The images may be viewed in any World Wide Web browser compatible with HTML 3.0 or higher.

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By David H. Levy

What would it be like if we sent a poet to study and describe the night sky? Thanks to renowned amateur astronomer David Levy, we know the answer — it's written in this enjoyable little book. Comet hunter Levy's first-person narratives about exploring the sky are laced with astronomy-related poetry and prose from some of the world's great books. Explore the relationship between literature and science! *127 pages, 5¼ by 7¾ inches, softcover.*

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4 • The Art and Science of CCD Astronomy **New!**

Edited by David Ratledge

When you're ready to take that first step into electronic imaging, let this book be your guide. Ratledge brings together articles from 12 leading amateur astronomers who routinely produce professional-quality images of the cosmos. These experts describe their techniques and offer essential advice for anyone considering the purchase and use of a CCD camera. A must for your library! *178 pages, 6 by 9¼ inches, softcover.*

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